

L 12648-65 EWT(1)/EWT(m)/EWP(t)/EWP(b) IEP(c) JD

ACCESSION NR: AP4044935

S/0181/64/006/009/2655/2662

AUTHOR: Skobov, V. G.

TITLE: On the quantum theory of coupled electromagnetic-sound waves  
in metals <sup>21</sup> <sup>3</sup>

SOURCE: Fizika tverdogo tela, v. 6, no. 9, 1964, 2655-2662

TOPIC TAGS: quantum theory, sound wave, electromagnetic wave, wave  
coupling, ultrasound propagation, electric conductivity, helicon  
wave

ABSTRACT: The author investigates the influence of quantization of  
electrons on the spectrum and damping of the coupled waves produced  
in metals in a strong magnetic field. These coupled waves are the  
result of resonance produced when the helicon waves, which exist  
when the concentrations of the electrons and holes in the metal are  
unequal, and the ultrasound waves propagating in the metal have equal

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phase velocities. An analysis of the resonance conditions shows that the quantum oscillations of the Landau damping give rise to strong oscillations of the degree of coupling of the waves. This leads to periodic changes of the character of the waves as the magnetic field is varied in the resonance region. This also induces quantum oscillations in both the velocity and the damping of the waves. The authors consider also the excitation of coupled waves in a semi-infinite metal by an external electromagnetic field or by ultrasound. It is shown that the coupling of the electromagnetic-acoustic waves is subject to oscillations which give rise to strong changes in the spatial distribution of the electromagnetic and sound fields in the metal. It is indicated that to calculate the conductivity tensor of the metal, which characterizes the spectrum and the damping of the helicon wave, it is essential to use quantum theory, and that quantization does not influence the off-diagonal elements of the tensor, which characterize the drift of the electrons in the electric and magnetic fields, but influence greatly the resonance

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part of the transverse conductivity. Orig. art. has: 33 formulas.

ASSOCIATION: Fiziko-tehnicheskii institut im. A. F. Ioffe AN SSSR  
(Physicotechnical Institute AN SSSR)

SUBMITTED: 25Mar64

ENCL: 00

SUB CODE: GP, EM

NR REF SOV: 006

OTHER: 001

Metal Physics

18

Card 3/3

ACCESSION NR: AP4012555

S/0056/64/046/001/0273/0286

AUTHORS: Skobov, V. G.; Kaner, E. A.

TITLE: Theory of coupled electromagnetic and sound waves in metals situated in a magnetic field

SOURCE: Zhurnal eksper. i teoret. fiz., v. 46, no. 1, 1964, 273-286

TOPIC TAGS: electromagnetic wave, sound wave, acoustic wave, resonant interaction between waves, inductive interaction, resonant coupling, coupled wave, coupled wave damping, coupled wave velocity, coupled wave polarization, wave transformation, mutual wave transformation

ABSTRACT: It is shown that resonance interaction between weakly damped electromagnetic and sound waves in metals results in their mutual transformation and gives rise to coupled waves. In metals with unequal electron and hole concentrations the coupling is due to

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ACCESSION NR: AP4012555

inductive interaction between the electrons and the lattice. When transverse oscillations propagate along the magnetic field, the coupling near resonance is so strong that the distinction between electromagnetic and sound waves is lost. The coupling, velocity, and damping of the waves are highly anisotropic relative to the angle between the wave vector and the magnetic field. In addition,

when acoustic oscillations resonate with electromagnetic waves that have a discrete spectrum and a wavelength small compared with the Larmor radius the coupling of the waves is determined by the deformation interaction between the electrons and the sound waves. The velocity, damping, and polarization of the coupled waves are found for all the cases in question. The coefficients of mutual transformation of the different waves are calculated. Excitation of coupled oscillations by external fields is considered. Orig. art. has: 68 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR

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ACCESSION NR: AP4012555

(Physicotechnical Institute AN SSSR); Institut radiofiziki i elektroniki AN UkrSSR (Institute of Radiophysics and Electronics, AN UkrSSR)

SUBMITTED: 14Jun63

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 009

OTHER: 000

Card 3/3

ACCESSION NR: AP4025944

S/0056/64/046/003/1106/1116

AUTHORS: Kanor, E. A.; Skobov, V. G.

TITLE: Electromagnetic waves in metals with arbitrary law of electron dispersion

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 1106-1116

TOPIC TAGS: electromagnetic wave in metal, arbitrary electron dispersion, Larmor radius, carrier mean free path, electric conductivity tensor, helical magnetic wave, magnetohydrodynamic wave propagation, polarization, Fermi surface, Alfvén wave

ABSTRACT: Unlike the earlier investigation by the authors, where isotropic dispersion of the carriers was considered (ZhETF v. 45, 610, 1963), in the present article the theory of propagation of electromagnetic excitation in a metal situated in a strong magnetic

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ACCESSION NR: AP4025944

field is considered for an arbitrary electron dispersion law. A limiting case is analyzed, where the excitation wavelength is large compared with the Larmor radius and small compared with the carrier mean free path. It is shown that the anisotropy of the electron dispersion results in singularities in the spectrum, attenuation, and polarization of the excitations. The electric conductivity tensor and the magnetohydrodynamic wave propagation are analyzed in such a metal. In metals with singly-connected Fermi surface the attenuation of the helical electromagnetic wave is nonmonotonic in the field strength. The polarization of this wave depends both on the direction and on the strength of the static magnetic field. In metals with equal hole and electron densities, the anisotropy of the Fermi surface leads to disappearance of the Alfvén wave in the region where the Alfvén velocity is smaller than the Fermi velocity. On the other hand, a new electromagnetic wave is generated in this region, with a quadratic spectrum independent of the field strength. The electric field vector of this wave is directed along the static mag-

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ACCESSION NR: AP4025944

netic field. Orig. art. has: 1 figure and 38 formulas.

ASSOCIATION: Institut radiofiziki i elektroniki AN UkrSSR (Institute of Radiophysics and Electronics, AN UkrSSR); Fiziko-tehnicheskii institut im. A. F. Ioffe AN SSSR (Physicotechnical Institute AN SSSR)

SUBMITTED: 20Sep63

DATE ACQ: 16Apr64

ENCL: 00

SUB CODE: PH

NR REF SOV: 003

OTHER: 008

Card 3/3

ACCESSION NR: AP4037595

S/0056/64/046/005/1809/1819

AUTHORS: Skobov, V. G.; Kaner, E. A.

TITLE: Quantum theory of propagation of electromagnetic waves in metals in a magnetic field

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1809-1819

TOPIC TAGS: electromagnetic radiation, magnetic field, quantum electrodynamics, Landau damping, conductivity tensor, helical electromagnetic wave, electron scattering, metal lattice

ABSTRACT: The theory of propagation of electromagnetic waves under conditions of strong spatial dispersion, when the wavelength is much smaller than the mean free path of the conduction electrons, developed by the authors earlier (ZhETF, v. 45, 610, 1963 and v. 46, 1106, 1964), is extended to include the quantum limit  $\hbar\Omega \gg T$  ( $\Omega$  -- cyclotron frequency of conduction electrons,  $T$  -- temperature in energy

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units). It is shown that the quantization of the electron state leads to giant quantum oscillations of the dissipative part of the conductivity tensor, due to Landau damping. The effect of these oscillations on the spectrum, damping, and polarization of a helical electromagnetic wave in a metal with arbitrary carrier dispersion is considered. It is shown that upon variation of the magnetic field the damping and the polarization of the helical waves experience abrupt quantum oscillations. The effect of the electron scattering on the amplitude and the waveform of the oscillations is investigated in the region of not too strong magnetic fields, for very strong magnetic fields, for finite temperatures, and for different frequencies. Orig. art. has: 50 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR (Physicotechnical Institute, Academy of Sciences SSSR); Institut radiofiziki i elektroniki Akademii nauk Ukrainskoy SSR (Institute of Radiophysics and Electronics, Academy of Sciences

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ACC NR: AP603229

SOURCE CODE: UR/0053/66/089/003/0367/0408

AUTHOR: Kaner, E. A.; Skobov, V. G.

ORG: Institute of Radiophysics and Electronics, AN UkrSSR (Institut radiofiziki i elektroniki AN UkrSSR); Physicotechnical Institute Im. A. F. Ioffe, AN SSSR (Fiziko-tehnicheskii institut AN SSSR)

TITLE: Electromagnetic waves in metals in a magnetic field

SOURCE: Uspekhi fizicheskikh nauk, v. 89, no. 3, 1966, 367-408

TOPIC TAGS: electromagnetic wave propagation, solid state plasma, dispersion equation, magnetohydrodynamics, low temperature research, magnetic field

ABSTRACT: The authors show first that the hitherto prevailing opinion, that no low-frequency electromagnetic waves can propagate in metals, is not supported by modern notions of solid state theory. They consequently review extensively the latest literature on electromagnetic waves, defined as collective oscillations of an electron-hole plasma of a metal, in light of recent theoretical and experimental proof that various electromagnetic waves can exist at low temperatures and in the presence of the magnetic field in metals, and in light of new resonant effects, such as anomalous transparency of metals, resulting from such waves. The section headings are: 1. Introduction. 2. General formulation of problem. Dispersion equations. I. Long waves ( $kR \ll 1$ ). 3. Helicon waves (isotropic case). 4. Magnetohydrodynamic waves (isotropic case). 5. Electromagnetic waves in the vicinity of cyclotron resonance.

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UDC: 538.3

I 07472-47

ACC NR: AF6032249

0

6. Arbitrary law of conduction electron dispersion. Electric conductivity tensor. 7. Helicon waves (anisotropic case). 8. Magnetohydrodynamic waves (arbitrary carrier dispersion law). 9. Excitation of electromagnetic waves in metals by an external field. Surface impedance. 10. Experimental observation of electromagnetic waves in metals. II. Short waves ( $kR \gg 1$ ). 11. Qualitative considerations. 12. Asymptotic behavior of the conductivity tensor. 13. Low-frequency waves with discrete spectrum. 14. High-frequency waves with discrete and continuous spectrum. 15. Excitation of waves with discrete spectrum. New resonance effect. 16. Electromagnetic waves in the vicinity of cyclotron resonances. Tables summarizing the various types of waves, the conditions under which they exist, their spectrum, their relative damping and polarization, are presented for slow and fast helicon waves, magnetohydrodynamic waves, Alfvén waves, magnetic-sound waves, low- and high-frequency waves with discrete and continuous spectra, ordinary and extraordinary waves, longitudinal waves, and others. Orig. art. has: 7 figures, 216 formulas, and 2 tables.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 021/ OTH REF: 017

Card 2/2 bc

SKOBSKIY, I.L., professor

Reflex epilepsy. Vop.neirokhir. 21 no.1:56 Ja-F '57. (MLRA 10:3)

1. Stanislavskiy gosudarstvennyy meditsinskiy institut.  
(EPILEPSY)

SKOBSKIY, I.L., prof. (Stanislav)

Asymmetry of meningeal symptoms in subarachnoid hemorrhage and certain diseases of the cerebral meninges [with summary in English, p. 63]. Vopr.neirokhir. 23 no.2:29 Mr-Apr '59. (MIRA 12:4)

1. Kafedra nervnykh bolezney Stanislavskogo meditsinskogo instituta.

(MENINGES--DISEASES)

SKOBSKIY, I.L., prof.

Treatment of endarteritis with increasing doses of sodium nitrite.  
Vrach. delo no. 1:127-128 '61. (MIRA 14:4)

1. Kafedra nervnykh bolezney (zav. - prof. I.L. Skobskiy)  
Stanislavskogo meditsinskogo instituta.  
(ARTERIES---DISEASES) (SODIUM NITRITE)



SKOBSKIY, I.L., prof. (Stanislav)

Treatment of neuritis and initial atrophy of the optic nerves with increasing doses of sodium nitrate. Vrach.delo no.9:82-83 S '62.

(MIRA 15:8)

1. Kafedra nervnykh bolezney (zav. - prof. I.L.Skobskiy) meditsinskogo instituta.

(NEURITIS) (OPTIC NERVE---DISEASES) (SODIUM NITRITE)

SKOBSKIY, I.L., prof. (Ivano-Frankovsk)

Disorders of the cerebral blood circulation in vascular hypotension.  
Vrach.delo no.2:36-40 F '63. (MIRA 16:5)

(CEREBROVASCULAR DISEASE) (HYPOTENSION)

SKOBSKIY, I.L., prof.

I. IA Razdol'skii's symptom in a tumor of the optic thalamus.  
Vrach. delo no.9:154-155, 163. (MIRA 16:10)

1. Kafedra nervnykh bolezney (zav. - prof. I.L. Skobskiy)  
Ivano-Frankovskogo meditsinskogo instituta.  
(OPTIC THALAMUS — TUMORS) (RAZDOLSKII, I.IA)

SKOBTSEV, K. A.

USSR/Meteorology - Aerologists

Jun 52

"Outstanding Workers in the Meteorological Service  
of Civil Aviation," K. A. Skobtsev, Main Admin of  
Hydrometeorol Sv, Council of Ministers, USSR

"Meteorol i Gidrol" No 6, p 49-53

Article states that N. S. Yuryatina and A. F. Kar-  
tashova [photographs included] are outstanding in  
their forecasting for aviation.

229T97

SKOBTSEV, K. A.

PA 237T74

USSR/Geophysics - Main Hydrometeorological Service Dec 52

"Better Forecasters of the Hydrometeorological Service," K.A. Skobtsev, GUGMS in the Council of Ministers USSR

"Meteorol i Gidrol" No 12, pp 54, 55

Describes 4 Soviet senior forecasters who were rewarded for their work, by the Council of Ministers USSR; namely, V.M. Kurganskaya, R.A. Nezhikhovskiy, S. N. Strakhov and N. S. Yuryatina. Gives the titles and affiliation.

237T74

GORTSEV, K.A.

Problem of the Observations, Description, and Taking Into Account of  
Extraordinary Meteorological and Hydrological Phenomena Meteorol. i  
gidrologiya, No 1, 1953, pp 52-55

The author remarks on the unsatisfactoriness of the position taken  
in the system of the Hydrometeorological Service as stated in the brochure  
entitled Ob uchete i doneseniyakh o chrezvychaynykh gidrometeorologicheskikh  
vavleniyakh privedshikh k proisshestviyam v narodnom khozyaystve (Taking  
Into Account and Reports of Extraordinary Hydrometeorological Phenomena  
That Lead to Incidents in the National Economy) and points to the ad-  
vantages introduced since 1 January 1953 in the new statement entitled  
Polozheniya o nablyudeniya, opisani i uchete chrezvychaynykh meteoro-  
logicheskikh i gidrologicheskikh vavleniy i doneseniyakh o nikh (Positions  
Taken as to Observations, Description, and Accounting of Extraordinary  
Meteorological and Hydrological Phenomena and Reports on Them). The new  
publication gives not simply an account of the events and incidents in  
the various branches of the national economy caused by unfavorable hydro-  
meteorological phenomena, but also the observation, description, study,  
and account of dangerous meteorological and hydrological phenomena.  
(RZhGeol, No 5, 1954)

SO: Sum. No. 568, 6 Jul 55

SKOBTSEV, K.A.

We shall improve the operative hydrometeorological service of  
the fishing industry of the U.S.S.R. Meteor.i gidrol. no.5:  
28-31 My 53. (MLRA 8:9)  
(Meteorology, Maritime) (Fisheries)

SKOBTSOV, A.

Knowledge of economics is necessary for all people. Mast. ugl. 9  
no. 11:23-24 N '60. (MIRA 13:12)

1. Zaveduyushchiy otdelom propagandy i agitatsii Stalinskogo obkoma  
Kommunisticheskoy partii Uraly.  
(Donets Basin--Coal mines and mining--Costs)  
(Communist education)



SA-117-100  
KOVICH, Yakov Lazarevich; SKOBTSOV, L., otvetstvennyy red.

[Donets Basin, 1917-1957] Donbass, 1917-1957. [Stalino] Stalinskoe  
obl. izd-vo, 1957. 167 p.  
(Donets Basin--Views)

SKOBTISOV, L.Ya., red.

[Our seven-year plan] Nasha semiletka. Stalino, Knizhnoe izd-vo,  
1959. 127 p. (MIRA 13:3)  
(Russia--Economic policy)

SKOBTSOV, L.Ya., red.; KHOLODOV, V., red.; SAMOLETOVA, A., tekhn.red.

[New methods prompted by life; experience in the mass political work of party organizations in Stalino Province] Novos, rozhdennoe zhizn'iu; iz opyta massovo-politicheskoi raboty partiinykh organizatsii Stalinskoi oblasti. Stalino-Donbass, Knizhnoe izd-vo, 1960.

129 p.

(MIRA 14:4)

(Stalino Province--Communist Party of the Soviet Union--Party work)

OSTROVSKIY, M.Ye., arkhitekt; SKOBTSOV, N.A., inzhener.

Unified building parameters and specifications for buildings of  
the chemical industries. Stroi.prom. 34 no.2:22-27 P '56.  
(MLBA 9:5)

(Factories--Design and construction)

SKOBTISOV, N.A., inzh.

Methods of planning standard structures. Prom.stroi. 38 no.3:  
27-30 '60. (MIRA 13:6)  
(Factories--Design and construction)

SKOBTISOV, N.A.

Standardized dimensions of one-story buildings. Prom.stroi. 40  
no.11:20-24 '62. (MIRA 15:12)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperi-  
mental'nyy institut promyshlennykh zdaniy i sooruzheniy.  
(Industrial buildings—Standards)

SKOLTSOV, Yevgeniy Aleksandrovich; IZOTOV, Anatoliy Dmitriyevich;  
— TUZOV, Leonid Vasil'yevich; SELIVANOV, K.I., inzh., retsenzent;  
MISELEV, M.A., inzh., red.; ONISHCHENKO, R.N., red. izd-va;  
PETERSON, M.M., tekhn. red.

[Methods for reducing the vibration and noise of diesel engines]  
Metody snizheniia vibratsii i shuma dizelei. Moskva, Mashgiz,  
1962. 191 p. (MIRA 15:12)  
(Diesel engines) (Damping (Mechanics))

L 05061-67 EWT(d)/EWT(m)/EWP(f)

ACC NR: AM6013189

Monograph

UR/

Kane, Azriael' Borisovich; Skobtsov, YEvgeniy Aleksandrovich

Reversing mechanisms of marine diesel engines (Reversivnyye ustroystva sudovyykh dizeley) Leningrad, Izd-vo "Sudostroyeniye," 1965. 230 p. illus., biblio., tables. 2400 copies printed.

TOPIC TAGS: marine engineering, ship navigation, marine engine, diesel engine

PURPOSE AND COVERAGE: This book is intended for engineering and technical personnel engaged in the design of reversing mechanisms and is recommended for students in shipbuilding schools of higher education and higher marine navigation schools; it may also be used by specialists working on the design and maintenance of main diesel engines and marine diesel equipment.

TABLE OF CONTENTS [abridged]:

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Ch. I. Propeller operation during reversal -- 7

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Ch. II. Structural arrangement of reverse systems -- 31

Ch. III. Starting systems for diesel engines -- 75

Ch. IV. Maneuvering qualities of ships -- 129

Ch. V. Mechanization and automation of main ship engines. Remote control of reversing and starting mechanisms -- 142

Ch. VI. Analysis of direct reversing systems -- 184

References -- 224

SUB CODE: 13/ SUBM DATE: 16Oct65/ ORIG REF: 105

Card 2/2 *pla*

SHUYKIN, N.I.; BEL'SKIY, I.F.; SKOBTSOVA, G.Ye.

Catalytic transformation of amines of the furan series to  
pyrrole homologs. Izv.AN SSSR.Otd.khim.nauk no.2:378-380 F  
'63. (MIRA 16:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.  
(Furan) (Pyrrole)

BEL'SKIY, I.F.; SHUYKIN, N.I.; SKOBTSOVA, G.Ye.

Conjugated hydrogenolysis in the synthesis of pyrrolidine homologs.  
Izv. AN SSSR. Ser.khim. no.9:1675-1678 S '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.  
(Hydrogenation) (Pyrrolidine)

SHUYKIN, N.I.; BEL'SKIY, I.F.; SKOBTSOVA, G.Ye.

Catalytic synthesis of higher pyrrole and pyrrolidine homologs  
from  $\alpha$ -furylalkylamines. Izv. AN SSSR. Ser.khim. no.9:  
1678-1680 S '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.  
(Furanamine) (Pyrrole) (Pyrrolidine)

SHUYKIN, N.I.; PETROV, A.D.[deceased]; GLUKHOVTSEV, V.G.; BEL'SKIY, I.F.;  
SKOBTSOVA, G.Ye.

Synthesis of furanamines and their catalytic conversion to nitrogen-  
containing five-membered heterocycles. Izv.AN SSSR.Ser.khim. no.9:  
1682-1685 S '64. (MIRA 17:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

BEL'SKIY, I.F.; SHUYKIN, N.I.; SKOBTSOVA, G.Ye.

Catalytic transformation of furanamines to 2,4-dialkyl pyrroles.  
Izv. AN SSSR. Ser. khim. no.6:1118-1120 Je '64.

Synthesis of 2,5-dialkylpyrrolidines by conjugated catalytic  
hydrogenolysis of furanamines. Ibid.:1120-1123 (MIRA 17:11)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

SKOBUNOV, V.V.

Measuring circuit for automatic recording of salt concentration in  
water streams. Izv. tekh. no. 2: 28-30 F '64. (MIRA 17:4)

SKOBUNOV, V.V., gornyy inzhener

Distribution and calculation of methane concentration along the  
cross-section of workings. Ugol' Ukr. 2 no.2:20-22 F '58.  
(MIRA 13:3)

(Mine gases)



57-28-6-16/34

AUTHOR: Skobunov, V. V.

TITLE: The Experimental Study of the Aerodynamics of Dusty Air in Cleaning Bottoms (Eksperimental'noye izucheniye aerodinamiki zapylenogo vozdukha v ochistnykh zaboyakh)

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 6, pp. 1224 - 1228 (USSR)

ABSTRACT: One of the main problems of modern pit ventilations is the prevention of impurities in the ventilation jet. It is clearly shown (figure 1) that the distribution of impurities in the turbulence column is subject to the Gaussian law and is repeated along the length of the column. Propagation of the column takes place according to the linear law. It is known that a similar phenomenon is observed in free jets. In order to check the similarity between the turbulence column in the ventilation jet and that in the free jet, currents of dust were investigated in the course of the combine-drawing of coal. Experiments were carried out in Laven 9-West, shafts Nr 17-17 and 56-East, shaft Nr 29 in the town of Stalino. The weighing method was used for the recording of dust, for which purpose an ejector

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The Experimental Study of the Aerodynamics of Dusty  
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aspirator AER-4(produced by the Laboratory for the Safety of Mining ) was used. As is shown (figure 4) the concentration of dust decreases with an increase of the distance from the axis of the dust column. Experimental data are compared with the theoretical modification curve of the longitudinal concentrations (figure 7) which was determined by means of the formula developed by Abramovich (Reference 6) for a round dusty jet:

$$\frac{n_m}{n_o} = \frac{0.7}{\frac{ax}{R_o} + 0.29}$$

As may be seen herefrom, the curve is located near the experimental points. Besides the law found for particles of dust floating near the dust source, the theory of free turbulence can be extended also to other laws governing the behavior of dispersed particles. It is known that the falling of particles of dust out of the ventilation jet, which is caused by the particles' own weight, and the adhering of dust to the walls

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The Experimental Study of the Aerodynamics of Dusty  
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are random phenomena and are therefore more or less subject to the normal law of the distribution of dispersed quantities. It is shown (figure 8) that the best agreement with the theoretical curve of the process of precipitation is obtained by means of experiments concerning the falling out of coal dust (points 1, reference 8). Heavy particles of mineral origin (points 2) (Reference 9) and (points 3) (Reference 10) will fall out or adhere according to other laws. Nevertheless, the fact must be stressed also in this case that with a current velocity of 0,5 - 0,85 m/sec and more, the experimental points approach nearer to the theoretical curve than in the case of a slow motion of the air current. There are 8 figures and 10 references, 9 of which are Soviet.

ASSOCIATION: Institut gornogo dela AN SSSR, Moskva (Moscow, Institute of Mining, USSR Academy of Sciences)

SUBMITTED: November 19, 1956

Card 2/5 1. Underground structures 2. Air—Impurities 3. Aerodynamics—Theory

SKOBUNOV, V.V., Cand Tech Sci -- (diss) "Study of the distribution  
of impurities (dust, methane) in the atmosphere of ~~mines~~." Mos,  
1959, 14 pp including cover (Acad Sci U.S.S.R. Inst of Mining ~~Affairs~~)  
150 copies (KL, 35-59, 114)

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SKOBUNOV, V.V.

The conclusions arrived at by S.N. Osipov and V.N. Ponomarev  
have not been confirmed experimentally. Ugol' Ukr. Vol.3  
no.5:39-41 My '59. (MIRA 12:9)  
(Mine gases)

LIDIN, G.D., prof., doktor tekhn.nauk, otv. red.; KHODOT, V.V., doktor tekhn. nauk, red.; VESELOVSKIY, V.S., prof., doktor tekhn. nauk, red.; VORONINA, L.D., kand. tekhn. nauk, red.; SKOBUNOV, V.V., kand. tekhn. nauk, red.; KOSTAN'YAN, A.Ya., red. izd-va; VOLKOVA, V.G., tekhn. red.

[Mine atmosphere] Rudnichnaia aerologiya. Moskva, Izd-vo Akad. nauk SSSR, 1962. 259 p. (MIRA 15:7)

1. Akademiya nauk SSSR. Institut gornogo dela.  
(Mine ventilation)

SKOBUNOV, V.V., kand.tekhn.nauk

Ventilating open pits with natural convection. Gor.  
zhur. no.6:72 Je '62. (MIRA 15:11)

1. Institut gornogo dela im. Skochinskogo, Moskva.  
(Mine ventilation)

SKOBUNOV, V.V.

Use of air curtains to regulate the amount of air in mine workings.  
Gor. i ekon. vop. razrab. ugol'. i rud. mest. no.1:182-191 '62.  
(MIRA 16:7)

(Mine ventilation)



SKOBUNOV, V.V.

Measuring the components of the fluctuation velocity by means  
of a unifilar thermoanemometer. Inzh.-fiz.zhur. 5 no.12:23-26  
D '62. (MIRA 16:2)

1. Institut <sup>gornogo dela</sup> AN SSSR imeni A.A.Skochinskogo, Moskva.  
(Heat—Convection) (Gas flow)

NIKITIN, V.S., kand.tekhn.nauk; SKOBUNOV, V.V., ~~kand.tekhn.nauk~~

Turbulent diffusion of dust and poison gases in the air of  
open-pit mines. Bor'ba s sil. 207-217 '62. (MIRA 16'5)

1. Institut gornogo dela imeni A.A.Skochinskogo. (Mine gases)  
(Strip mining) (Mine dusts)

SKOBUNOV, V.V.

Downward ventilation and methane escape. Gor. 1 ekon. vop. razrab.  
ugol'. 1 rud. mest. no.1:246-251 '62. (MIRA 16:7)  
(Mine ventilation) (Methane)

LIDIN, G.D., prof., doktor tekhn. nauk, otv. red.; KHODOT, V.V.,  
doktor tekhn. nauk, red.; VESELOVSKIY, V.S., prof.,  
doktor tekhn. nauk, red.; VORONINA, L.D., kand. tekhn.  
nauk, red.; SKOBUNOV, V.V., kand. tekhn. nauk, red.;  
AYRUNI, A.T., red.; PRUSAKOVA, T.A., tekhn. red.;  
GUS'KOVA, O.M., tekhn. red.

[Problems in mine atmosphere] Problemy rudnichnoi aero-  
logii. Moskva, Izd-vo AN SSSR, 1963. 279 p.

(MIRA 17:2)

1. Moscow. Institut gornogo dela imeni A.A.Skochinskogo.

L 31869-65 EWT(1)/EWP(m)/EPR/FCS(R)/EWA(L) Pd-L/Ps-A WS

8/0124/64/001/011/0037/0037

ACCESSION NR: AR5005866

SOURCE: Ref. zh. Mekhanika, Abs. 11E224

AUTHORS: Skobunov, V. V.

TITLE: On flow of air in corners

CITED SOURCE: Sb. Probl. rudnichn. aerol. M., AN SSSR, 1963, 79-84.

TOPIC TAGS: air flow, turbulent flow, turbulent jet, free stream turbulence

TRANSLATION: The aerodynamics of a stream in a corner, following sudden expansion, is usually based on the theory of free turbulence. The authors have measured the turbulence intensity,

The measurement of the static pressure in the region of the re-entrant jet  
and the number  $R$ , the static pressure in the region of the re-entrant jet

Card 1/2

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ACCESSION NR: AR5005866

remain constant: at distances from the angle up to  $3x/h$  ( $x$  -- distance from the corner,  $h$  -- height of corner) it drops very slowly, and in the range from  $3x/h$  to  $6x/h$  it increases abruptly from  $\approx 10\%$  to  $+ 30\%$  of the dynamic pressure, contra-

inflection of the profile, unlike a...  
Author's abstract.

SUB CODE: ME

ENCL: 00

Card 2/2



SKOBUNOVA, A.N., prof.; KARPENKO, Ye.S., kand.med.nauk

Problems of acute obstruction of mesenteric vessels. Khirurgiia  
33 no.6:62-67 Je '57. (MIRA 10:12)

1. Iz kafedry operativnoy khirurgii i topograficheskoy anatomii  
(zav. - prof. A.I.Skobunova) Sverdlovskogo meditsinskogo instituta  
(ARTERIES, MESENTERIC, dis.  
exper. occlusion, funct. & pathol. changes)

SKOBUNOVA, A.N.

Critical considerations on extended mastectomy in cancer of the  
breast. Vop.onk. 6 no.6:25-33 Je '60. (MIRA 14:3)  
(BREAST—CANCER)

KOHLIK, E.; SKOCDOPOLE, B.

Successive discrimination in sizes of the square. Biol. listy 31  
(CML 20:5)  
no.3-4:185-189 Jan 51.

1. Of the Institute of Physiology of the Medical Faculty of Charles University, Prague (Head--Prof. Vilem Laufberger, M.D.)

SKCCDOPOLE, B

Economic analysis of present conditions in the baking industry. III. Characteristics of the baking industry from the point of view of man power and work indexes. p.252.  
(Prumysl Potraviny, Vol. 8, No. 5, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

NADVORNIK, P.; MATEJICEK, V.; DROZEN, V.; LELEK, J.; SPACEK, C.; SKOCDOPOLE, B.

Experiences with the use of cybernetic diagnosis in neuro-surgery. Cesk. neurol. 26 no.6:413-416 N'63.

1. Neurochirurgická klinika, kybernetický kabinet a strojní počecí stanice ZVU v Hradci Králové UME, útvar automatizace, Praha.

\*

SPORNICK, K.

Research on dusting devices for plant protection. p. 31.

SPORNICK, KADA MUD ANISACE A ELEUTIMINACE ZAKLADNOSTAVI A LESNICTVE.  
Praha. Vol. 22, no. 1, Apr. 1955.

SOURCE: East European Accessions List (EEAL) Library of Congress  
Vol. 5, No. 7, July 1956.

SOV/127-59-1-14/26

AUTHOR: Skocnek, L., Mining Engineer (Czechoslovakia)

TITLE: Short-Delayed Blasting in the Ejpvovice Iron Ore Quarry  
(Korotkozamedlennoye vzryvaniye na zhelezorudnom kar'yere  
Eypovitse)

PERIODICAL: Gornyy zhurnal 1959, Nr 1, pp 50-53 (USSR)

ABSTRACT: The author describes experiments in working with DeM re-  
tarding electric detonators in the Ejpvovice Iron Ore Quarry.  
The detonators are a product of Czechoslovakia. They are  
produced in series of eleven 30 msec delaying detonators,  
and one of instant action. The Prague Institute for Engineer-  
ing Geology carried out experiments to study the seismic in-  
fluence of short-delayed blasting on various objects such as  
tunnel structures and the river bed located near the quarry.  
It was found, that the seismic effect of such blasting is  
several times lower than that of instant blasting. The output  
of unconditional lump size was not decreased. Experiments  
in drilling small diameter blast holes are being carried out.  
There are 1 diagram, 1 graph, 1 table, and 1 Soviet reference.

Card 1/1

SECRET, Vladivostok  
Surnames, Given Names

Country: USSR, Vladivostok

Academic Degrees: /no. 1961

Affiliation: /no. 1961

Source: USSR, Vladivostok, Vladivostok, Vol XXII, No 6, 61,  
1961-7-1961.

Data: "Basic terminology of the USSR."

Authors: SHUMIN, Jan

SHUMIN, No. 19

SHUMIN, No. 19

SHUMIN, No. 19

GPO 981643



SKOCEK, V.

2

CZECHOSLOVAKIA

PROUZA, V; SATTEAN, V; SKOCEK, V.

Central Geological Institute (Ustredni ustav geologicky),  
Prague (for all)

Prague, Vestnik Ustredniho ustavu geologickeho, No 5, 1963,  
pp 337-340

"New Knowledge of the Permo-Carboniferous and its  
Substratum in the Ohre Area."

SHUMKOV, Vladimir

Petrographic composition and genesis of iron ores in the  
Brezina area. Rozpravy mat CSAV 73 no.4:1-108 '63

SKOCEK, Vladimir

Argillitized tuffaceous rocks of the Manetin Basin and the  
problem of the origin of tonstein. Vest ust geol 39 no.2:  
105-116 Mr'64

1. Hstredni ustav geologicky, Praha

SLAVIK, Jiri; SKOCEK, Vladimir

Montmorillonite clays in the Permian of the Kladno-Rakovnik  
Basin. Vest ust geol 39 no.2:141-142 Mr'64

1. Ustredni ustav geologicky, Praha.

SKOCH, Miloslav, inz., dr.

Protection of miners by self-rescue apparatus. Uhli 5 no.4:133-137  
Ap '63.

1. Ministerstvo paliv.

LYUBOMUDROV, V.Ye.; BASS, M.A.; SKOCHELYAS, A.R.

Early progressive and late anthracosis. Khim. med. 38 no.5:68-72  
My '60. (MIRA 13:12)  
(LUNGS---DUST DISEASES)



SKOCHEL'YAS, N. P.

Economizing electrodes. Masl.-zhir.prom.20 no.5:29 '55. (MLRA 8:11)

1. Saratovskiy maslozavod No.2.  
(Electric welding)



SKOCHILOVA, S. Ya.

*chem* 2  
 1962 Determination of small amounts of phenol in hydrocarbons. *Izv. Akad. Nauk SSSR, Khim. Nauk*, 1962, No. 12, 22 (8) 319. In the production of  $\alpha$ -methylstyrene by oxidation of cumene followed by decomposition of the hydroperoxide and the hydration of the dimethylphenylcarbinol, a side reaction of decomposition of the hydroperoxide can yield phenol, which acts as an inhibitor of the oxidation of cumene and interferes with  $\alpha$ -methylstyrene and butadiene copolymerization. A method of determining phenol in  $\alpha$ -methylstyrene is described. *Procedure* - The sample (100 to 120 g) is thrice extracted by vigorous shaking with 15 ml of 1% NaOH soln., and the combined extracts are diluted to 100 ml in a calibrated flask. An aliquot portion (50 ml) is mixed with 1 ml of a freshly prepared soln. of a diazonium salt, prepared by mixing in the cold equal vol. of 0.1% p-nitroaniline hydrochloride and 0.05%  $\text{NaNO}_2$  soln. The color intensity is measured against a standard in a Duboscq colorimeter. The method was tested over the range 0.001 to 0.01%, with satisfactory results.

G. S. Saitov

*GA*

1 3577-66

ACC NR: AP6026849

SOURCE CODE: CZ/0060/66/000/002/0072/0074

AUTHOR: ~~Skocil, Vladimir~~—Skochil, V. (Lieutenant colonel; Doctor of medicine);  
~~Volek, Jiri~~—Volek, Y. (Lieutenant colonel; Doctor of medicine); Svejnova, Jiri—  
 Shveynoga, Y. (Captain; Doctor of medicine)

ORG: none

TITLE: Epidemic of streptococcal anginas of alimentary origin at a military unit

SOURCE: Vojenske zdravotnicke listy, no. 2, 1966, 72-74

TOPIC TAGS: army medicine, bacterial disease

ABSTRACT: At a military unit 62.4% of the soldiers who were getting their food from the same kitchen became ill within 5 days. The total number of afflicted soldiers was 475, and all were affected by a beta-hemolytic streptococcus of the group A type 3/27. It was discovered that the infection carrier was a cook who suffered from a suppurative finger. The streptococcus multiplied in the medium of an egg-spread. The cook himself became sick with the infection, as his body had no time to produce protective antibodies. Orig. art. has: 1 figure and 5 tables. [JPRS: 36,834]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 003

Card

1/1

UDC: 616.322-002-022.21.214-036.22-032/611.37: 356.33

Author: Kononov, L. Ia., Eng', L. Ia. SV, 4-7-14/65

Title: The Use of Fischer's Reagent in the Control of the Production of Synthetic Rubber (primeneniye reaktsiya shifera v kontrolye proizvodstva sinteticheskogo kauchuka)

Source: Sovetskaya laboratoriya, 1964, Vol. 1, No 7, pp. 816-817 (127)

Abstract: For the purpose of determining the humidity in products of the synthetic rubber industry the so-called Fischer's reagent is used. It consists of a solution of iodine, pyridine and sulfur dioxide in methanol. A. I. Maslova took part in the work. The reagent was produced from gaseous  $SO_2$ , which was cooled down to  $15^\circ$ . It was placed in a flame-proof container. With it the sample (esters, higher alcohols and carboxylic acids) which was dissolved in dry methanol, was titrated, until a red coloring appeared. A control experiment was conducted in which methanol alone was titrated. In order to determine the content of dimethylphenyl carbinol the sample was boiled under the addition of dehydrated sodium bisulfite and dimethylbenzene (or of one of its homologues). When it was removed by dry methanol and the mixture was titrated with

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007/30-74-7-14,65

The Use of Fischer's Reagent in the Control of the Production of Synthetic Rubber

the reagent. The determinations last 20 minutes each. The results of the analysis of artificial and industrial mixtures are given in a table. There are 2 tables.

ABSTRACT: Ispol'zovanie reagenta sinteticheskogo kauchuka  
(Fischer's reagent for synthetic rubber)

007/30-74-7-14,65

VOZNYUK, S.T.; KOROBCHENKO, Yu.T.; SKOCHINSKAYA, N.N.

Change in the characteristics of the improved peat soils  
in Polesye and the forest-steppe of the Ukraine under the  
effect of farming. Pochvovedenie no.1:19-28 Ja '64.

(MIRA 17:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut pochvo-  
vedeniya imeni A.N. Sokolovskogo i Khar'kovskiy sel'sko-  
khozyaystvennyy institut imeni V.V. Dokuchayeva.

*SKOCHINSKIY, ALEKSANDR ALEKSANDROVICH.*

*(1874-1963) DECEASED\* 1961*

DEMIDOV, Pavel Nikolayevich; KARTAVIY, Nikolay Grigor'yevich;  
PAVIYUCHENKO, Dmitriy Nikolayevich; LYUBIMOV, Boris  
Nikolayevich; KRIVONOSOV, V.F., retsenzont; SKOCHINSKIY,  
A.A., nauchnyy sotr., red.; PANOV, A.D., otv. red.; ABRAMOV,  
V.I., red. izd-va; BOLDYREVA, Z.A., tekhn. red.

[Coal plows] Ugol'nye strugi. [By] P.N. Demidov i dr. Moskva,  
Gosgortekhnizdat, 1962. 295 p. (MIRA 15:7)

1. Donetskii gosudarstvennyy proyektno-konstruktorskiy i  
eksperimental'nyy institut ugol'nogo mashinostroyeniya  
(for Krivonosov). 2. Institut gornogo dela it. A.A. Skochinskogo  
(for Panov).

(Coal mining machinery)

*\* words enter*

SKOCHIY, P.G.

Influence of meteorological factors on the appearance and course  
of some forms of cardiovascular diseases. Vrach.delo no.7:110-  
111 J1 '60. (MIRA 13:7)

1. Zaveduyushchiy Chernigovskim gorzdravotdelom.  
(CLIMATOLOGY, MEDICAL) (CARDIOVASCULAR SYSTEM--DISEASES)

SKOCHIY, P.G. [Skochii, P.H.]

Influence of abrupt meteorological fluctuations on women suffering from climacteric disorders; preliminary report. Ped., akush. i gin. 22 no.6:52-53 '60. (MIA 14:10)

1. Chernigivs'kiy mis'kiy oblasniy viddil okhoroni zdorov"ya (zav. - P.G.Skochiy [Skochii, P.H.]).  
(CLIMACTERIC) (WEATHER—MENTAL AND PHYSIOLOGICAL EFFECTS)



SKOCHIY, P.G.

Significance of certain meteorological factors in the development of  
cardiac and cerebral vascular diseases. Vrach. delo no.10:18-22 0 '61.  
(MIRA 14:12)

1. Nevrologicheskoye otdeleniye Chernigovskoy gorodskoy bol'nitsy.  
(MICROCLIMATOLOGY) (CEREBROVASCULAR DISEASES)  
(CORONARY HEART DISEASE)

SKOCHIV, P.G.

Effect of meteorological factors on the course of hypertension. Vrach. delo no. 640-42 Je'63. (MIRA 16:9)

1. Nevrologicheskoye otdeleniye Chernigovskoy gorodskoy bol'nitsy. (HYPERTENSION) (CLIMATOLOGY, MEDICAL)

SKOCHNY, P.G. (Chernigov)

Experience of treating dysenteric patients at their homes.  
Vrach. delo no.10:109-110 0 '63. (MIRA 17:2)

SKOCHIY, P.G.

Seasonal fluctuations of the amount of erythrocytes and hemo-  
globin in the blood of hypertension patients. Vrach delo  
no.11:130-131 N'63 (MIRA 16:12)

1. Nevrologicheskoye otdeleniye Chernigovskoy gorodskoy bol'-  
nitsy.

Epidemiology

CZECHOSLOVAKIA

UDC 356.33:616.921.5-022.78-036.22

SKOCIL, Vladimir, Dr, Lieut. Col.; BRUJ, Jaromir, Dr, Lieut. Col.;  
VOLDRICH, Zdonek, Dr Lieut.

"Epidemic of Influenza Caused by Virus B<sub>1</sub> and Mycoplasma Pneu-  
moniae(Eaton's Agent) in a Military Unit and the Ensuing Com-  
plications."

Prague, Vojenske Zdravotnicke Listy, Vol 36, No 1, Feb 67, pp  
15 - 19 .

Abstract: An epidemic which occurred in a unit stationed in  
West Bohemia during November of 1965 is discussed. The charac-  
teristic aspects of the epidemic were the high proportion of the  
persons infected (32.9% of the soldiers), high proportion of  
lung complications (20%), and a high proportion of overall com-  
plications (31%). Before the epidemic erupted the presence of  
Mycoplasma Pneumoniae was discovered in the unit. Virus B<sub>1</sub>  
acted either on those who were weakened by the Mycoplasma or  
acted simultaneously with it. 1 Figure, 6 Tables, 10 Western,  
13 Czech, 2 USSR references.

1/1

SKOCIR, J.

Pernicious influence of toxic gases in the environs of Celje and the reconstruction of damaged forests. p. 276.  
(Gozuarski Vestnik, Vol. 14, No. 9/10, 1956, Ljubljana, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

MACKOVA, V.; SKOCKOVA, E.

Measurement of the nonhomogeneity of thermoelectric parameters  
in semiconductor pressed materials. El tech cas 16 no.1:45-52  
'65.

KREMPASKY, Julius; MACKOVA, Valeria; SKOCKOVA, Eva

New methods of measuring the thermal conductivity of materials.  
Mat fyz cas SAV 11 no.2:146-158 '61.

1. Katedra fyziky, Slovenska vysoka skola technicka, Bratislava,  
Gottwaldovo namesti 2.



L 10910-65 EWP(r)/EWP(b) IJP(c)/AFETR/AFTC(p) JD  
ACCESSION NR: AP4049760 Z/0057/64/000/007/0331/0335

AUTHOR: Jasovsky, F. (Engineer); Skocovsky, P. (Engineer)

TITLE: Production of tinned plate in molten tin on modern lines B

SOURCE: Hutnik, no. 7, 1964, 331-335

TOPIC TAGS: tin, plating, industrial automation, automatic machine, industrial plant, industrial production

ABSTRACT: The modern tinning line practically removes all manual work, which is characteristic for old production facilities. The lines have automatic forwarding of steel plates, electrolytic pickling, and automatic plate movement through the plant. Auxiliary materials are also handled automatically. Machinery for recovery of tin is provided; tin is recovered by chemical methods in liquid medium. The tinnplating plant that is being completed now in East Slovakia Iron Works will be one of the most modern plants in the world. 2 Figures, 2 Tables.

Card 1/2

L 10910-65

ACCESSION NR: AP4049760

ASSOCIATION: Vychodoslovenske zelaziarne, Kosice (Iron Works of Eastern Slovakia)

SUBMITTED: 00

ENCL: 00

SUB CODE: IE, MM

NO REF SOV:000

OTHER: 000

JPRS

Card

2/2

GRYGLEWICZ, Zofia; SKOCZEK, Hanna

Seismic activity in 1959. Acta geophys pol 9 no.3:311-321 '61.

1. Zaklad Geofizyki Polskiej Akademii Nauk.

(Earthquakes)

SKOCZEK, W.

PIASECKI, W.: SKOCZEK, W. "The Trend Of Technical Works Of The Institute For The Organization And Mechanization Of Building". p. 75. (Przegląd Budowlany, Vol. 3, no. 2, Feb. 1953, Warszawa)

East European Vol. 3, No. 2,  
SO: Monthly List of ~~Russian~~ Accessions, Library of Congress, February, 1954, ~~1953~~, Uncl.

Shelton, W. Inside the station, with in [unclear] building. p. 36.  
Vol. 27, no. 10, Oct. 1966. PIREGLAD BUDGETARY.  
[unclear], Ireland.

3. 1966: [unclear] [unclear] [unclear] (1966) 10 Vol. 3, No. 6, June 1966

SKOCZEK, Wladyslaw

Present problems of the building industry. Przegl techn 81 no.25:  
5-7 Je '69.

SKOCZEN, I.

Streptomycin and sulfones in the treatment of tuberculosis.  
Med. wet. 6 no.3:158-161 Mar. 1950. (CML 20:1)

1. Of the Institute of Microbiology and Epizootiology of the University  
imienia Marie Curie-Sklodowska in Lublin (Head--Prof. Josef  
Parnas, M. D.).

SKOCZEN, Stanislaw

"The life of the mole (Talpa europaea Linnaeus)" by  
Gilian Godfrey, Peter Crowcroft. Reviewed by Stanislaw  
Skoczen. Przegl zoolog 7 no. 1:98-99 '63.



SKOCZEN, Stanislaw

"Macroscopic preparation techniques; guidebook for collection,  
preparation, and preservation" by R. Piechocki. Pt. 1.  
"Vertebrates" Reviewed by Stanislaw Skoczen. Przegl zoolog  
7 no. 1:99 '63.

1500-774.4  
SKOCZYLAS, A.

Polish Alpinists in the French Alps.

p. 227 (Wierchy) Vol. 25, 1956, Krakow, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

SKOCZYLA, A.

Poles in the Andes.

p. 242 (Wierchy) Vol. 25, 1956, Krakow, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

SKOCZYLAS, ADAM.

AGRICULTURE

SKOCZYLAS, ADAM. Hodowla owiec. Wyd.2. Warszawa, 1956. 190p.

DA Not in DLC

Monthly List of East European Accessions (EEAI) LC, Vol 8, no 4,  
April 1959, Unclass